





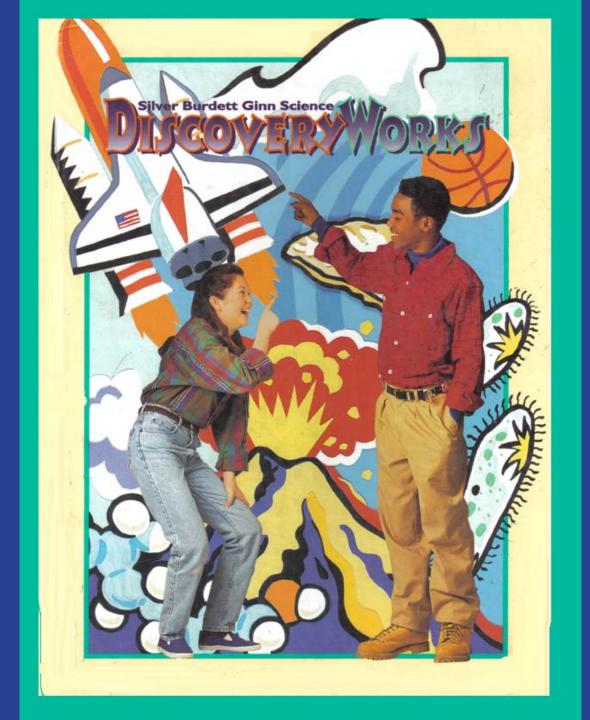
So, what happened in the world yesterday that was "science-y"?



Phenomena

Why now?

Transitioning to the NEXT GENERATION SCIENCE STANDARDS







NASA lands first successful Mars rover

HYBRID on the market iv

Wavefront analysis makes LASIK corrective eye surgery more popular

Endemic **MEASLES** are eliminated from the US^{vi}



2001

2003



Apple releases the **IPOD**

AN AMPUTEE USES THE FIRST ROBOTIC LIMBS OPERATED BY NERVE SIGNALS

HUMAN GENOME
Project is complete ix

MODOM

2005

French doctors perform the first successful **FACE TRANSPLANT***



2008

2010



PLUTO is reclassified as a dwarf planet^{xi}

HUBBLE SPACE
TELESCOPE OBSERVES
FIRST PLANET OUTSIDE OF
OUR SOLAR SYSTEM*

The first **SYNTHETIC GENOME** for a bacterial cell is created*



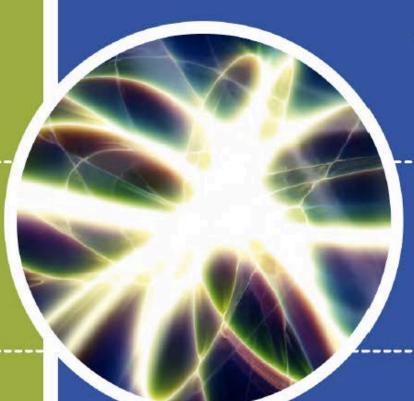






2012

2014



IBM'S **WATSON** wins Jeopardy!*iv

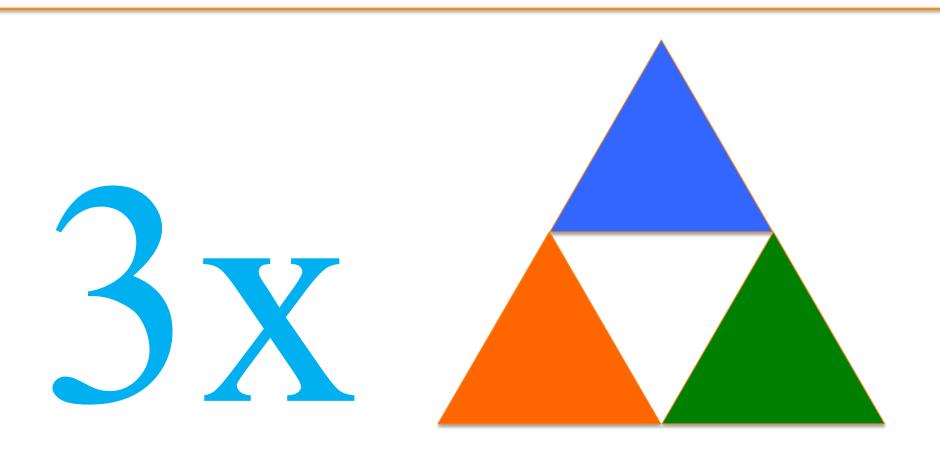


CERN DISCOVERS HIGGS BOSON**

SIX FLAGS AMERICA'S GOLIATH becomes the fastest

becomes the fastest wooden roller coaster in the world at 72 mph^{xvi}





In the last 10 years, growth in STEM jobs has been three times greater than non-STEM jobs.

61% of middle schoolers would rather take out the garbage than do their math homework.







Only 30% of high school graduates were ready for college work in science.



Only 45% were ready in math.



Out of every 100 9th graders, only six graduate from college with STEM degrees.

45,000

Washington state STEM jobs that will be filled by out-of-state employees due to a job skills gap.



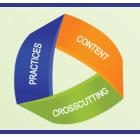


CCC

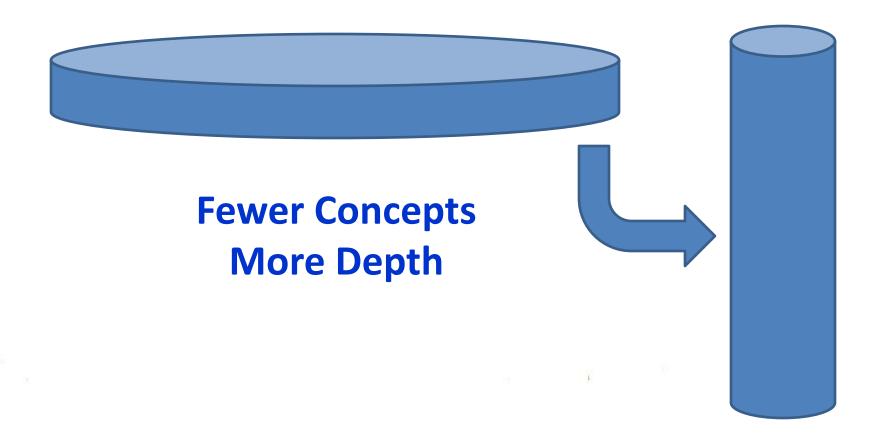
SEP

DCI

AAAS CR CCR CCSS CCC DCI ES ESS E ELA ED ETS FI FB GBE GDRO HI HS IRE IVT K LS MEOE MS NGSS NOS NSTA NRC NSA NSE PE PS SEP SF SFIP SPM SS STEM W WC WER

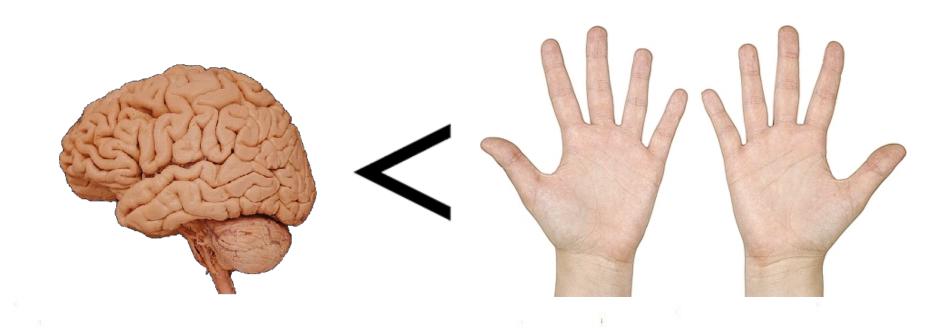


Content that is narrower but deeper



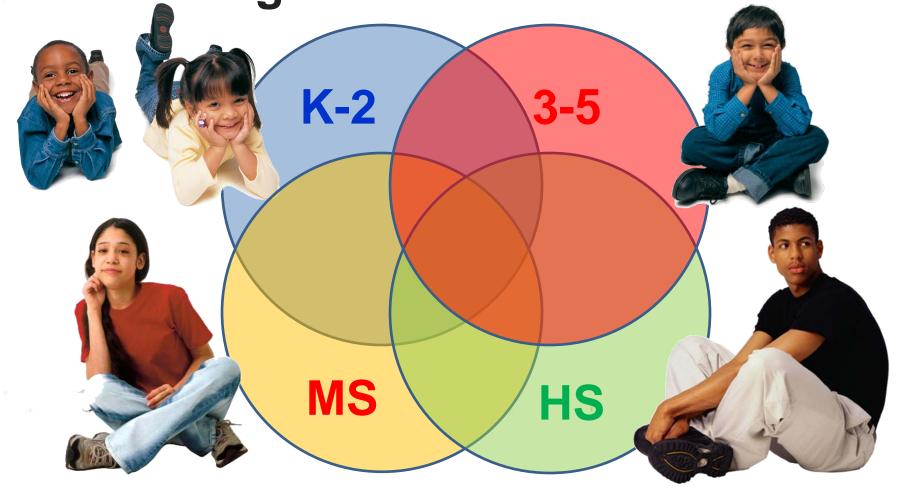


Fewer Factoids - More Process



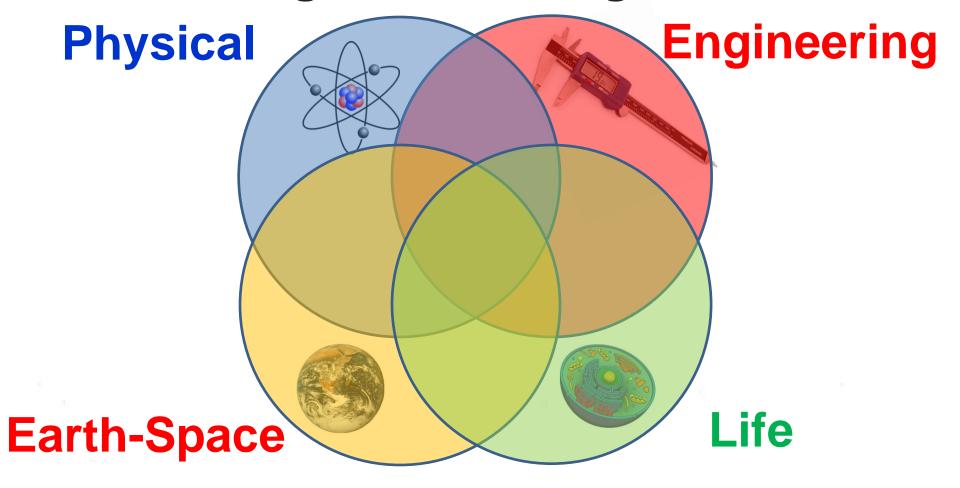


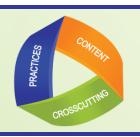
Greater Integration Across Grade Levels



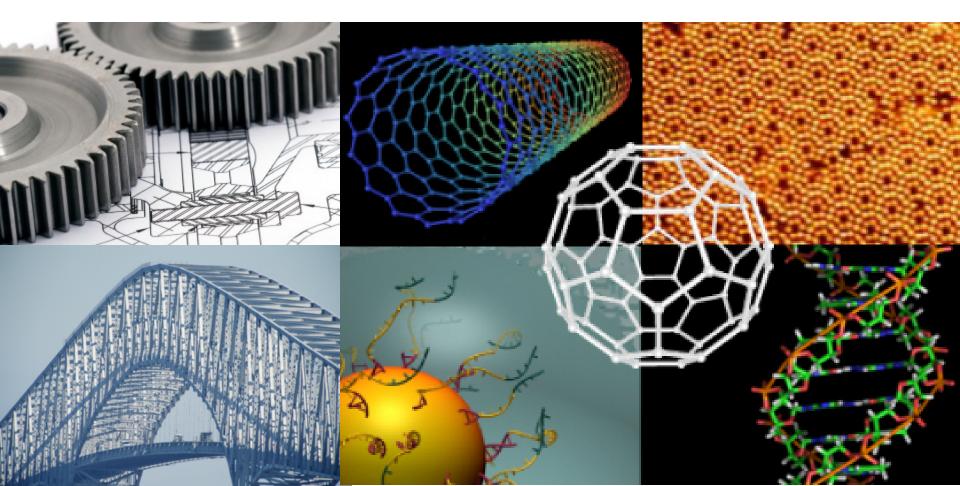


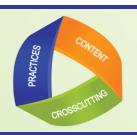
Greater Integration Among the Sciences





Greater integration with engineering and technology





Greater integration of and focus on human-related content





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GLOSSARY

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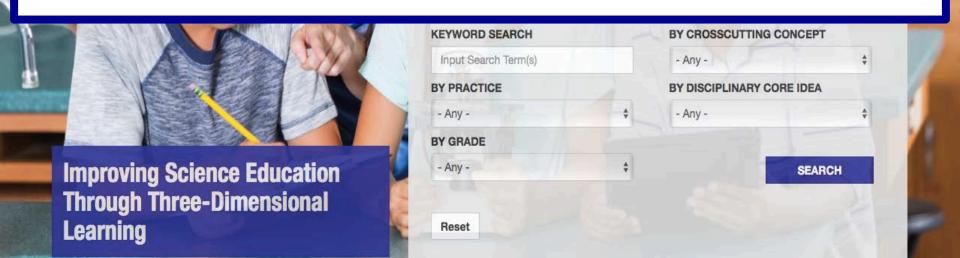
Q SEARCH

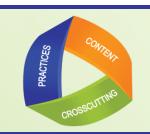


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PHENOMENA FOR NGSS

Creating the Next Generation of Student Engagement

PHENOMENA

SUBMIT PHENOMENA

WHY USE PHENOMENA

HOW TO USE PHENOMENA

EXAMPLE CONNECTIONS

ABOUT



TREEHOPPER ANT

WHO MOVES - SKY OR US?

CANDLE 'TRICK'









www.nextgenstorylines.org

Across the country, districts, schools, and teachers are working on implementing a new vision for science classrooms based on the Framework for K-12 Science and NGSS: classrooms in which teachers support students in science and engineering practices to build and use science ideas to explain real phenomena and solve real problems.

